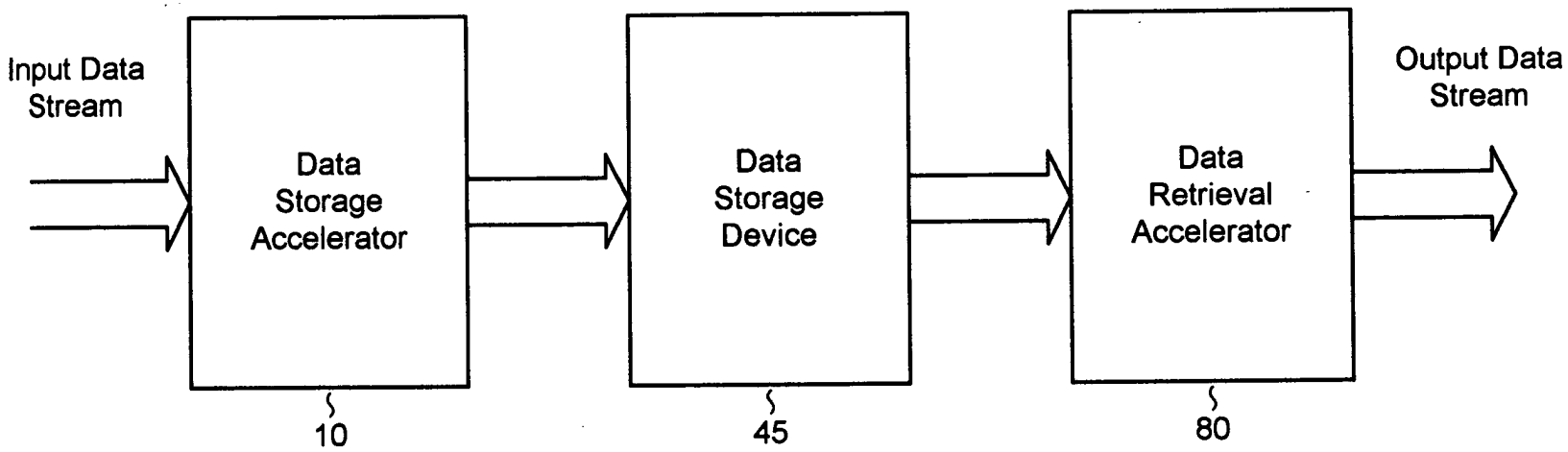
Input Data Stream
Data Storage Accelerator
10
Data Storage Device
45
Data Retrieval Accelerator
80
Output Data Stream

FIGURE 1

OIPE JC124
JUN 19 2003
PATENT & TRADEMARK OFFICE

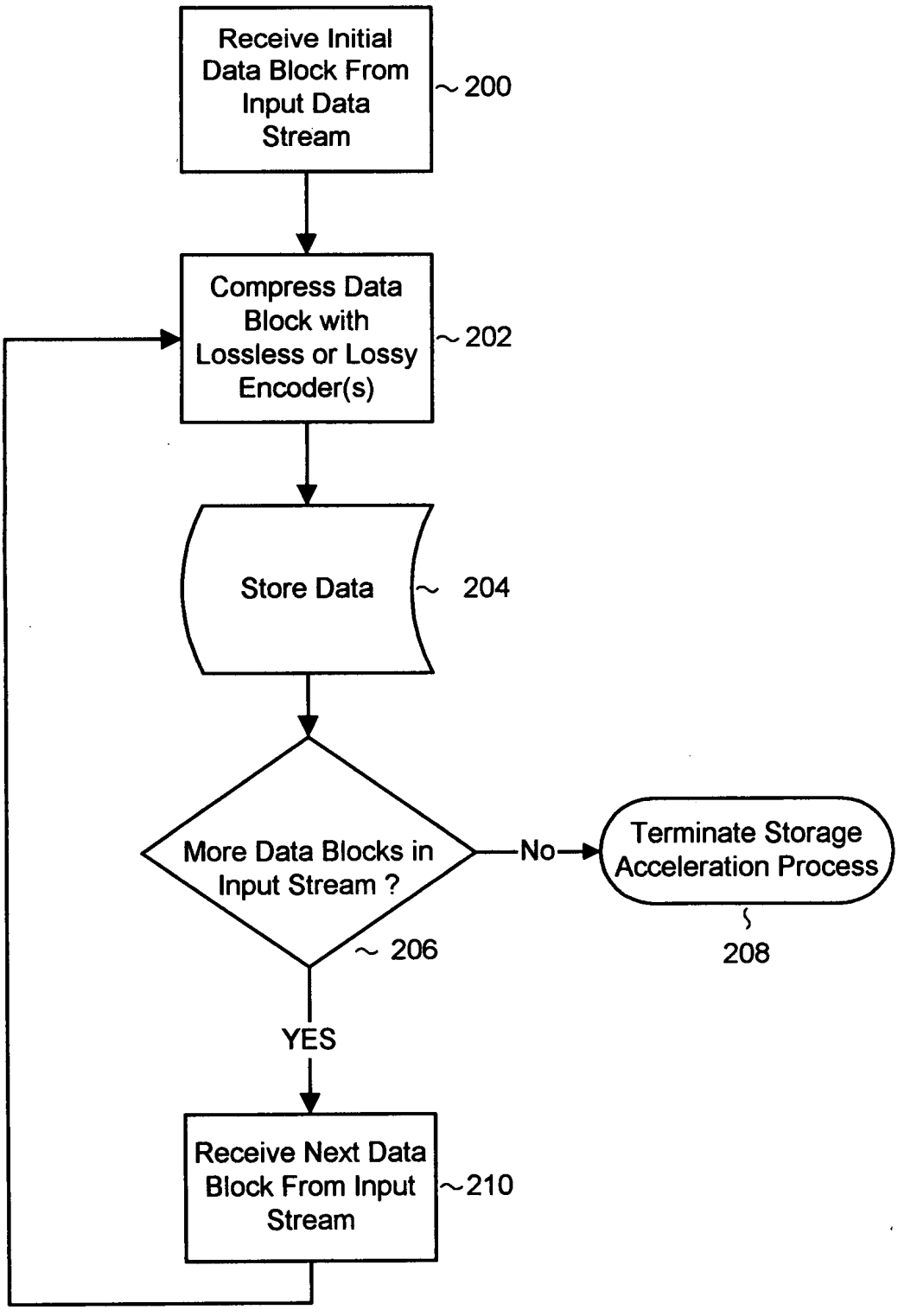

FIGURE 2

OIPE JC16
JUN 19 2003
PATENT & TRADEMARK OFFICE

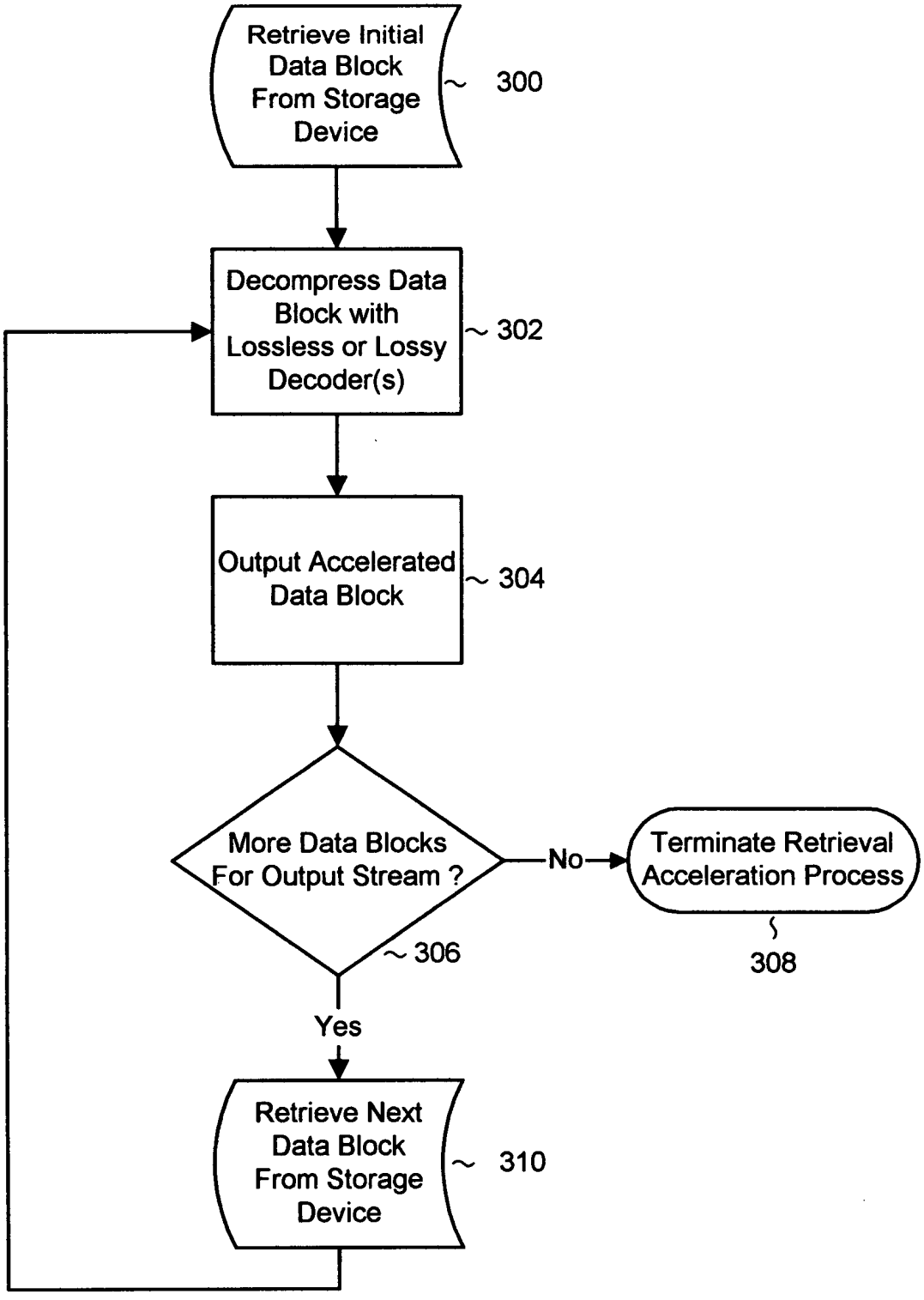

FIGURE 3

OIPE
JUN 19 2003
PATENT & TRADEMARK OFFICE

Time Interval	T1	T2	T3	T4	Ti
Receive Data Block	Receive Data Block 1	Receive Data Block 2	Receive Data Block 3	Receive Data Block 4	Receive Data Block i
METHOD 1					
Compress Data Block	Lossless or Lossy Compress Data Block 1	Lossless or Lossy Compress Data Block 2	Lossless or Lossy Compress Data Block 3	Lossless or Lossy Compress Data Block 4	Lossless or Lossy Compress Data Block i
Store Encoded Data Block	Store Encoded Data Block 1	Store Encoded Data Block 2	Store Encoded Data Block 3	Store Encoded Data Block 4	Store Encoded Data Block i
METHOD 2					
Compress Data Block		Lossless or Lossy Compress Data Block 1	Lossless or Lossy Compress Data Block 2	Lossless or Lossy Compress Data Block 3	Lossless or Lossy Compress Data Block (i-1)
Store Encoded Data Block			Store Encoded Data Block 1	Store Encoded Data Block 2	Store Encoded Data Block (i-2)

FIGURE 4a

PATENT & TRADEMARK OFFICE
JUN 19 2003

Time Interval	T(i+1)	T(i+2)	Tn	T(n+1)	T(n+2)
Receive Data Block	Receive Data Block (i+1)	Receive Data Block (i+2)	Receive Data Block n		
METHOD 1 Compress Data Block	Lossless or Lossy Compress Data Block (i+1)	Lossless or Lossy Compress Data Block (i+2)	Lossless or Lossy Compress Data Block n		
Store Encoded Data Block	Store Encoded Data Block (i+1)	Store Encoded Data Block (i+2)	Store Encoded Data Block n		
METHOD 2 Compress Data Block	Compress Data Block i	Compress Data Block (i+1)	Compress Data Block (n-1)	Compress Data Block n	
Store Encoded Data Block	Store Encoded Data Block (i-1)	Store Encoded Data Block i	Store Encoded Data Block (n-2)	Store Encoded Data Block (n-1)	Store Encoded Data Block n

FIGURE 4b

PATENT & TRADEMARK OFFICE JUN 19 2003

Time Interval	T1	T2	T3	T4	Ti
Retrieve Data Block	Retrieve Data Block 1	Retrieve Data Block 2	Retrieve Data Block 3	Retrieve Data Block 4	Retrieve Data Block i
METHOD 1					
Decompress Data Block	Lossless or Lossy Decompress Data Block 1	Lossless or Lossy Decompress Data Block 2	Lossless or Lossy Decompress Data Block 3	Lossless or Lossy Decompress Data Block 4	Lossless or Lossy Decompress Data Block i
Output Decoded Data Block	Output Decoded Data Block 1	Output Decoded Data Block 2	Output Decoded Data Block 3	Output Decoded Data Block 4	Output Decoded Data Block i
METHOD 2					
Decompress Data Block		Lossless or Lossy Decompress Data Block 1	Lossless or Lossy Decompress Data Block 2	Lossless or Lossy Decompress Data Block 3	Lossless or Lossy Decompress Data Block (i-1)
Output Decoded Data Block			Output Decoded Data Block 1	Output Decoded Data Block 2	Output Decoded Data Block (i-2)

FIGURE 5a

PATENT & TRADEMARK OFFICE JUN 19 2003

Time Interval	T(i+1)	T(i+2)	Tn	T(n+1)	T(n+2)
Retrieve Data Block	Retrieve Data Block (i+1)	Retrieve Data Block (i+2)	Retrieve Data Block n		
METHOD 1 Decompress Data Block	Lossless or Lossy Decompress Data Block (i+1)	Lossless or Lossy Decompress Data Block (i+2)	Lossless or Lossy Decompress Data Block n		
Output Decoded Data Block	Output Decoded Data Block (i+1)	Output Decoded Data Block (i+2)	Output Decoded Data Block n		
METHOD 2 Decompress Data Block	Lossless or Lossy Decompress Data Block i	Lossless or Lossy Decompress Data Block (i+1)	Lossless or Lossy Decompress Data Block (n-1)	Lossless or Lossy Decompress Data Block n	
Output Decoded Data Block	Output Decoded Data Block (i-1)	Output Decoded Data Block i	Output Decoded Data Block (n-2)	Output Decoded Data Block (n-1)	Output Decoded Data Block n

FIGURE 5b

JUN 19 2003

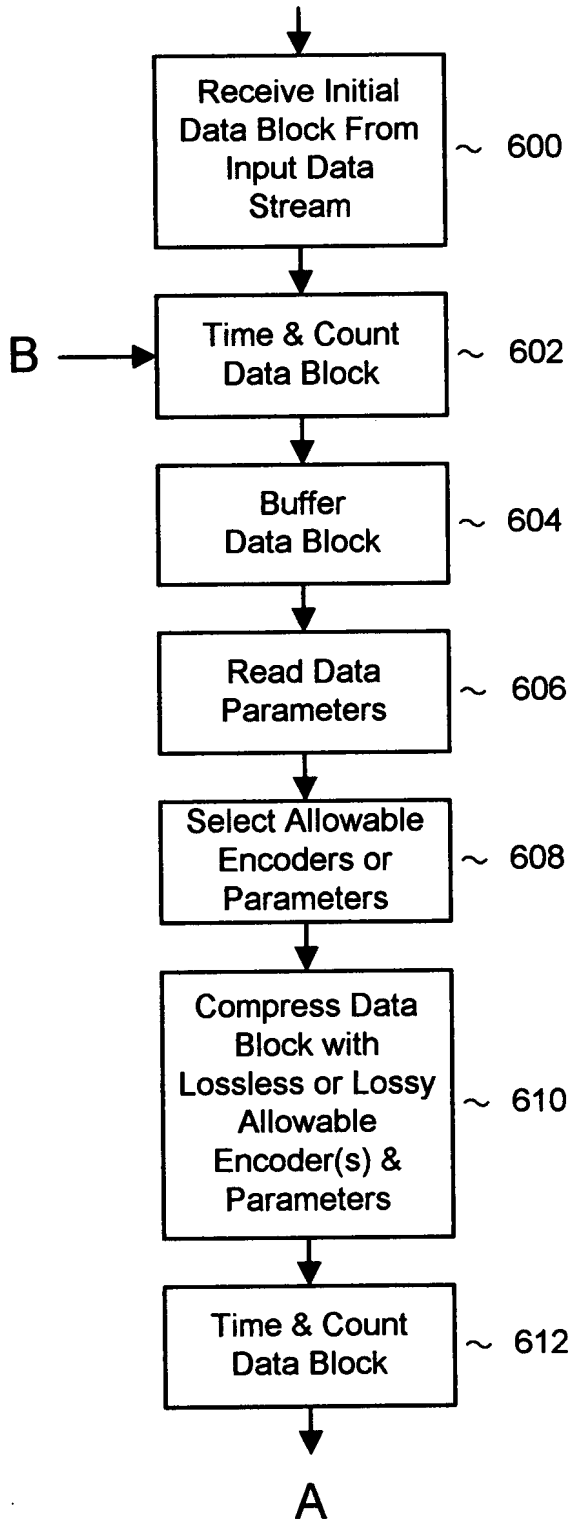

FIGURE 6a

JUN 19 2003
PATENT & TRADEMARK OFFICE

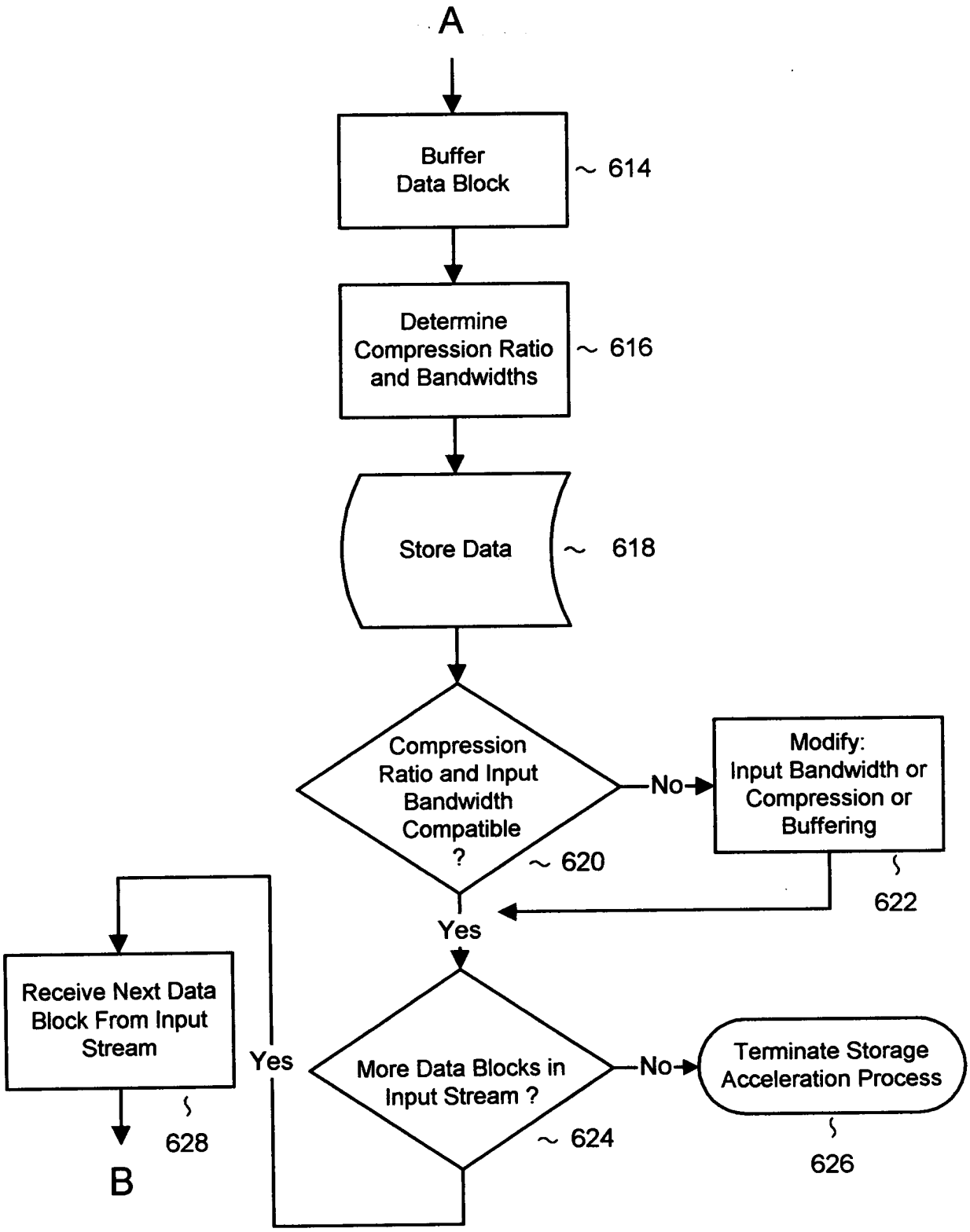

FIGURE 6b

OIPE
JUN 19 2003
PATENT & TRADEMARK OFFICE

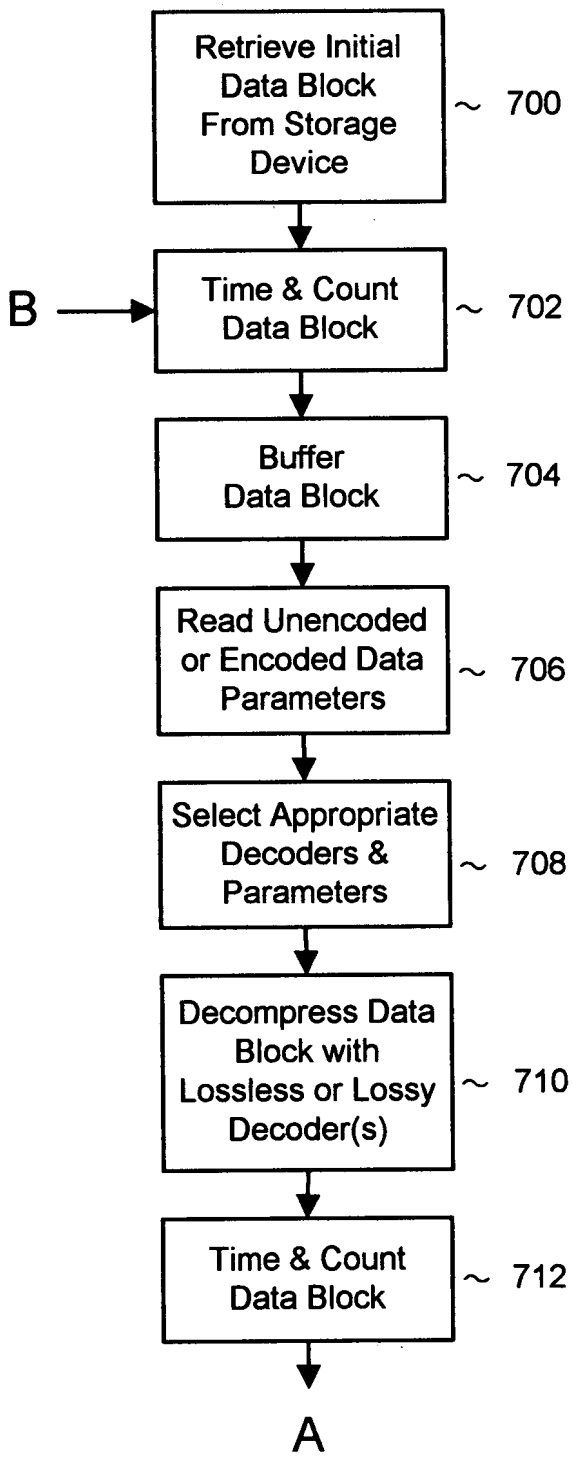

FIGURE 7a

JUN 19 2003
PATENT & TRADEMARK

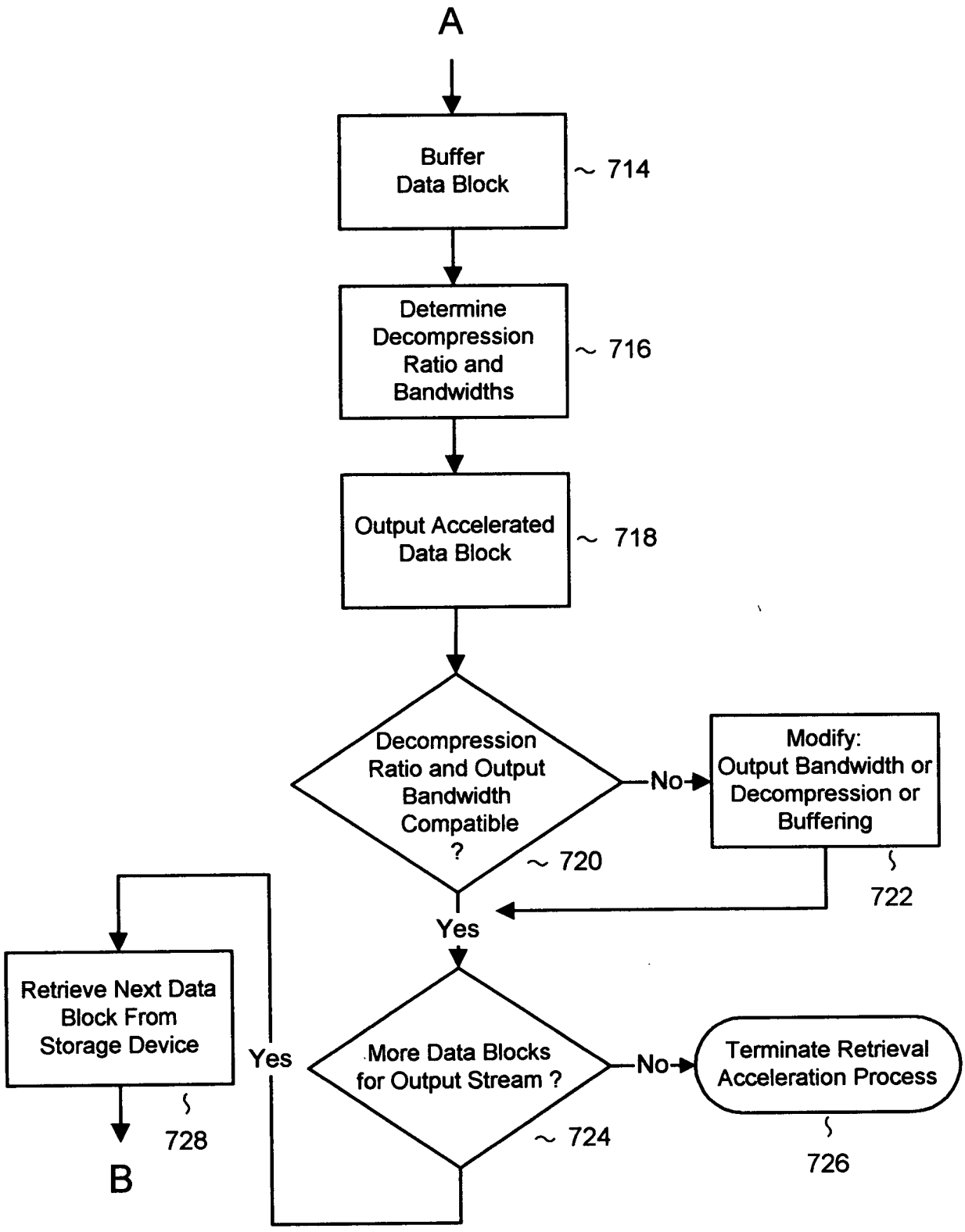

FIGURE 7b

PATENT & TRADEMARK OFFICE
JUN 19 2003
OIPE
JC184

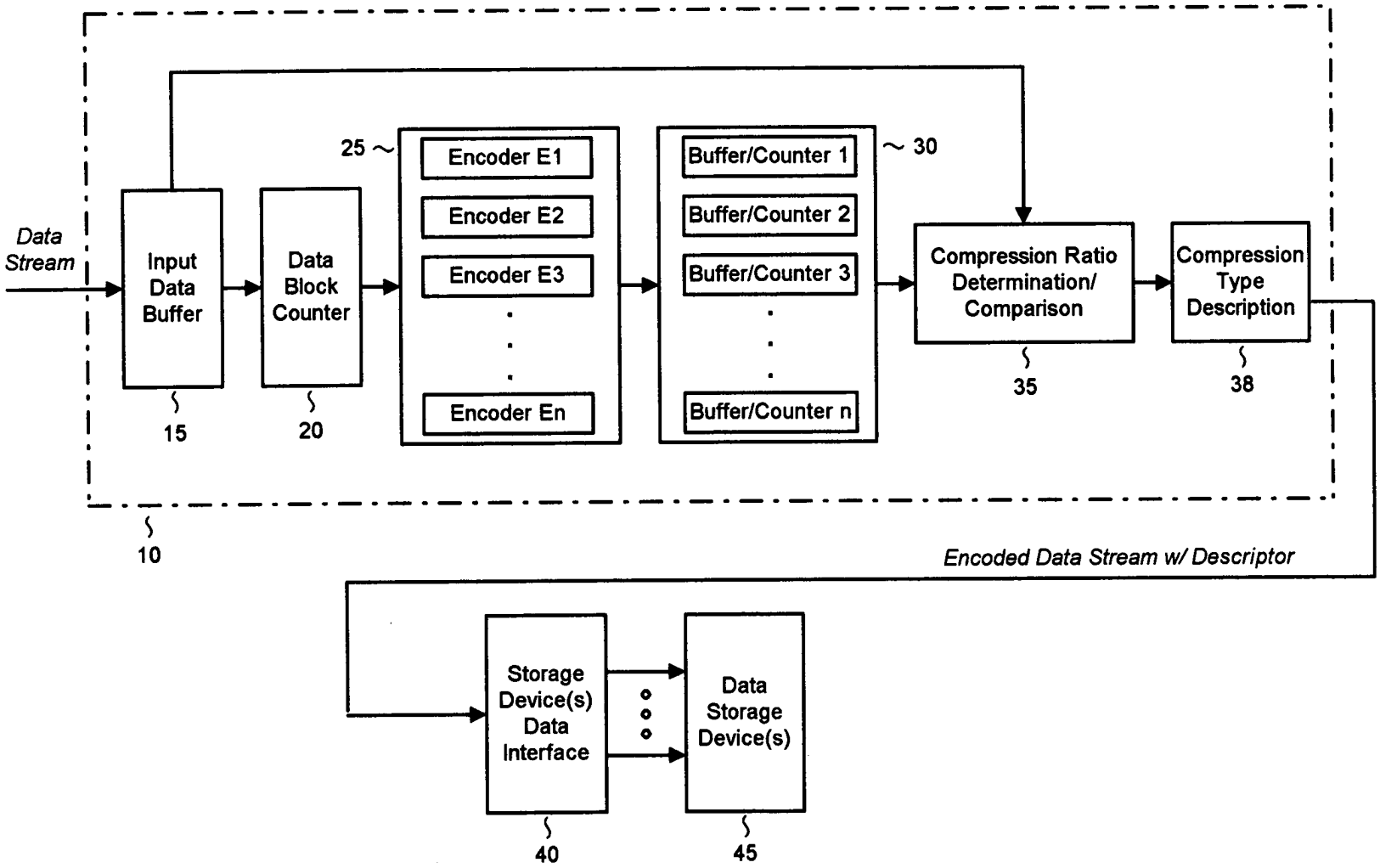

FIGURE 8

JUN 19 2003

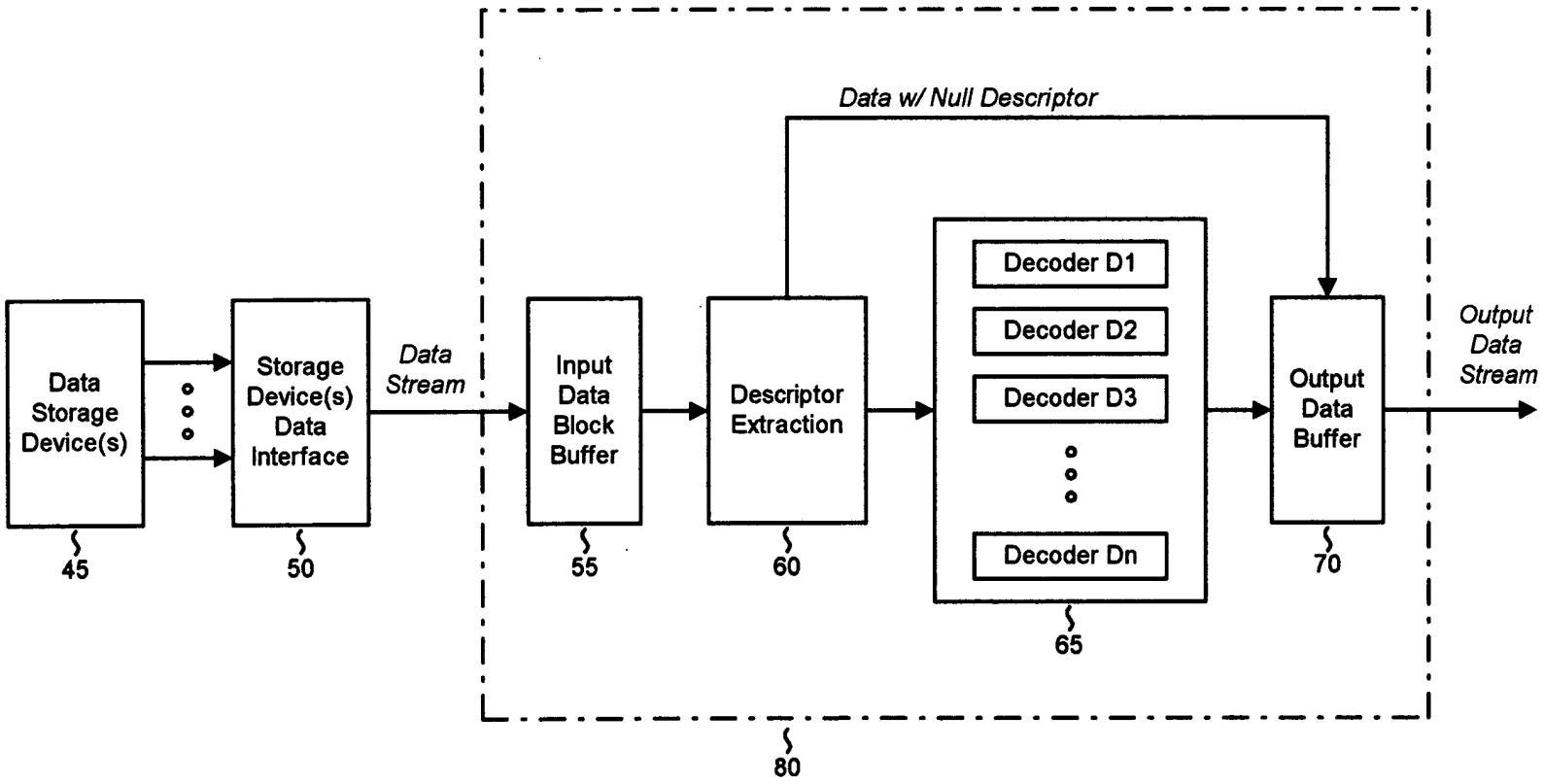

FIGURE 9

PATENT & TRADEMARK OFFICE
JUN 19 2003

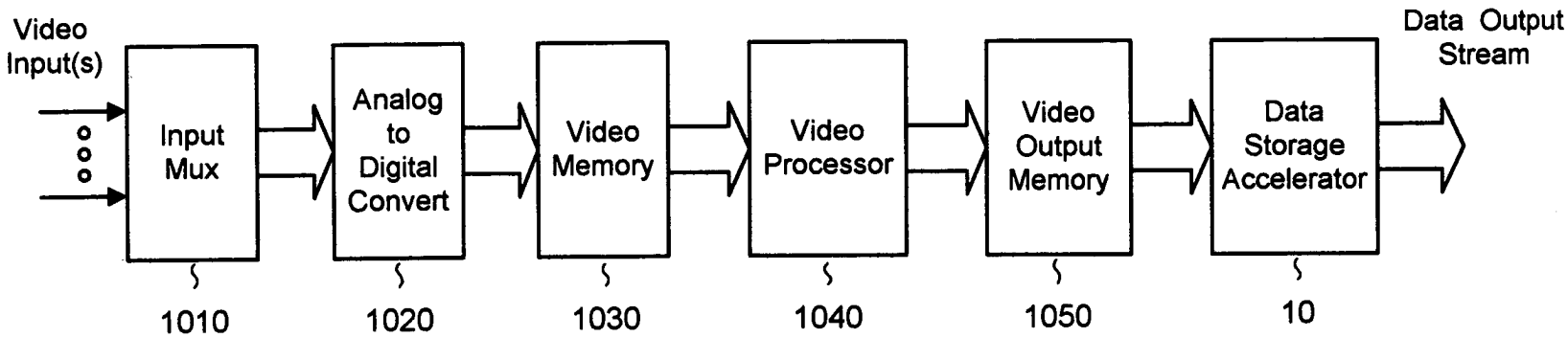

FIGURE 10

PATENT & TRADEMARK OFFICE
JUN 19 2003

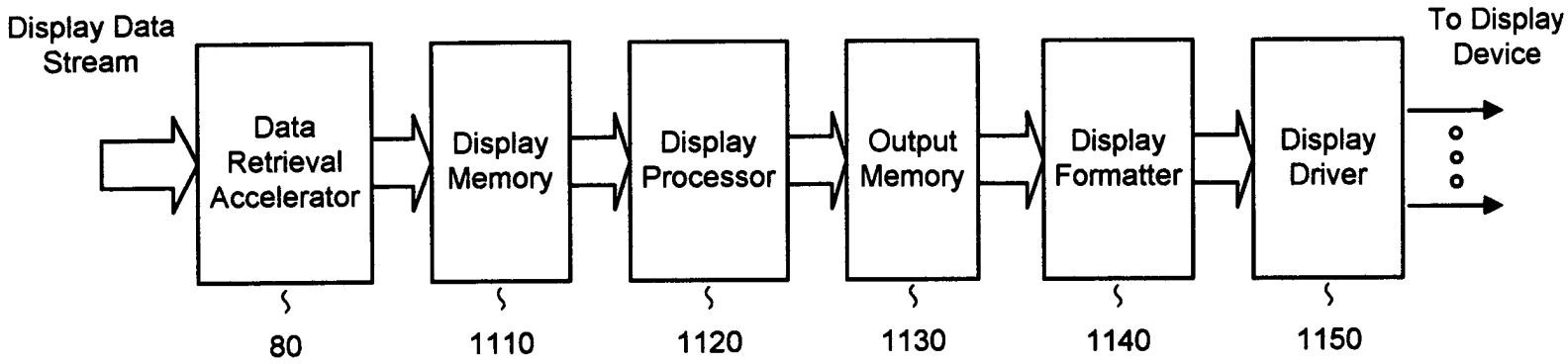

FIGURE 11

PATENT & TRADEMARK OFFICE
JUN 19 2003

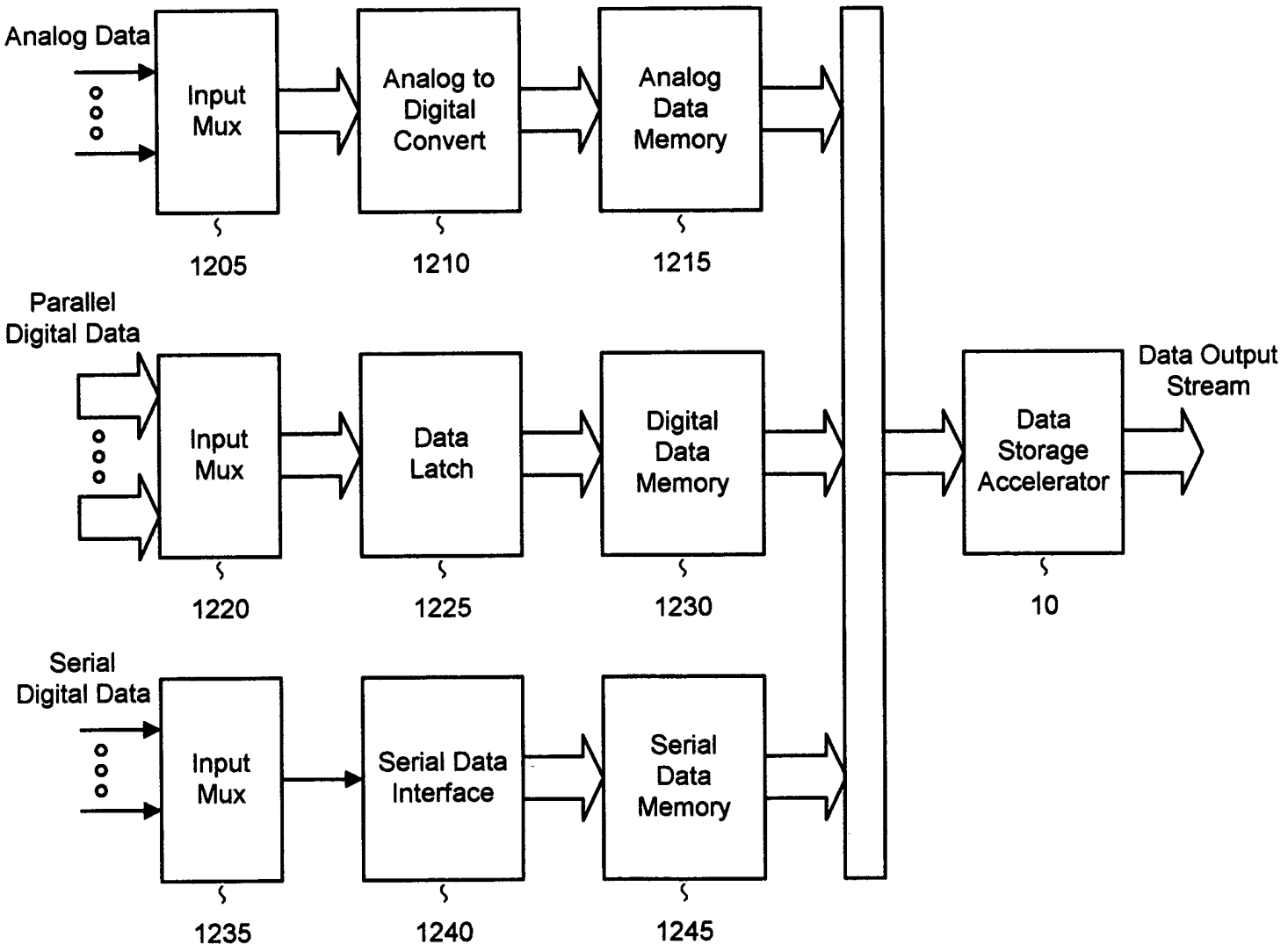

FIGURE 12

OIPE JG18A
JUN 19 2003
PATENT & TRADEMARK OFFICE

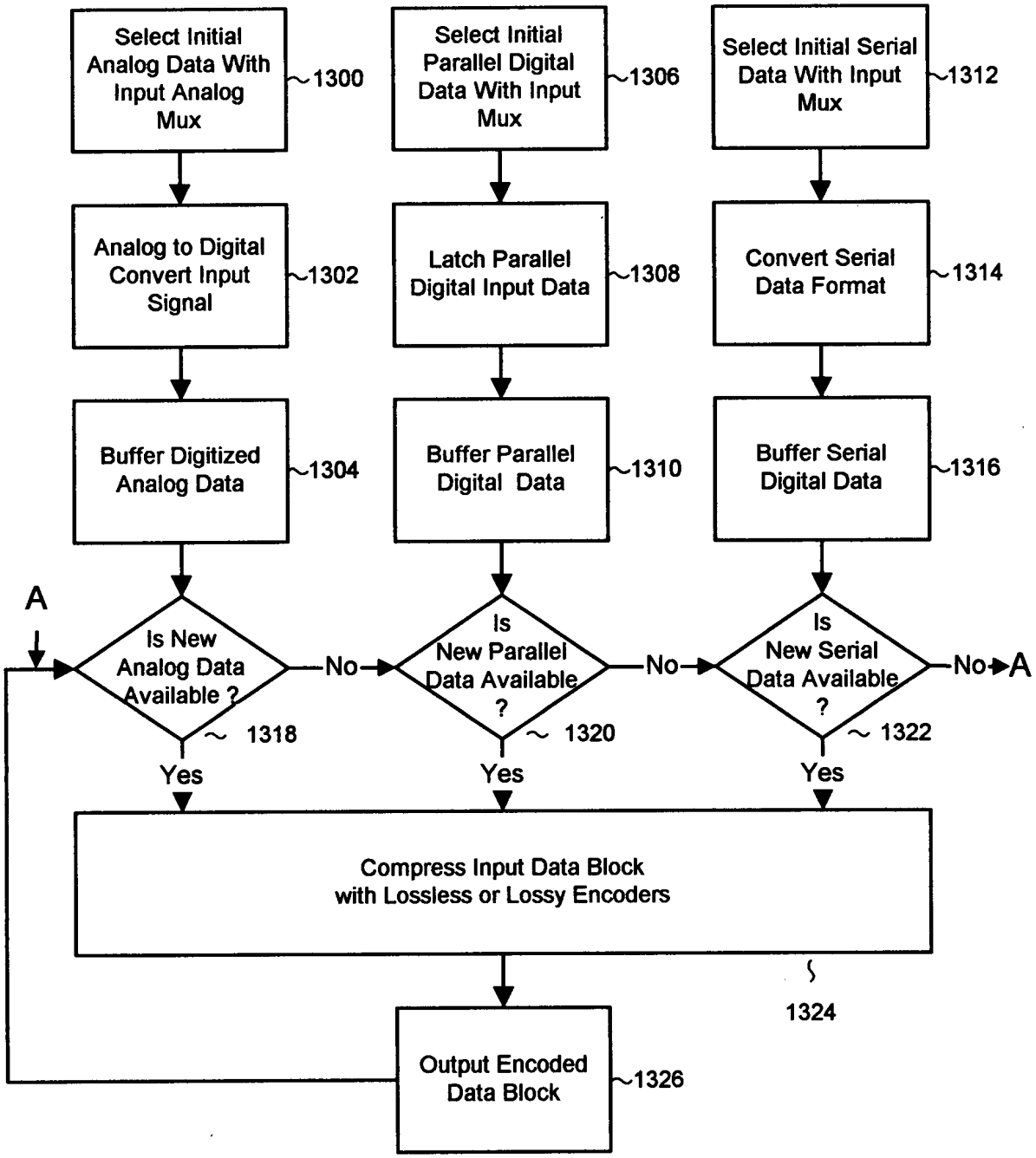

FIGURE 13

PATENT & TRADEMARK OFFICE
JUN 19 2003

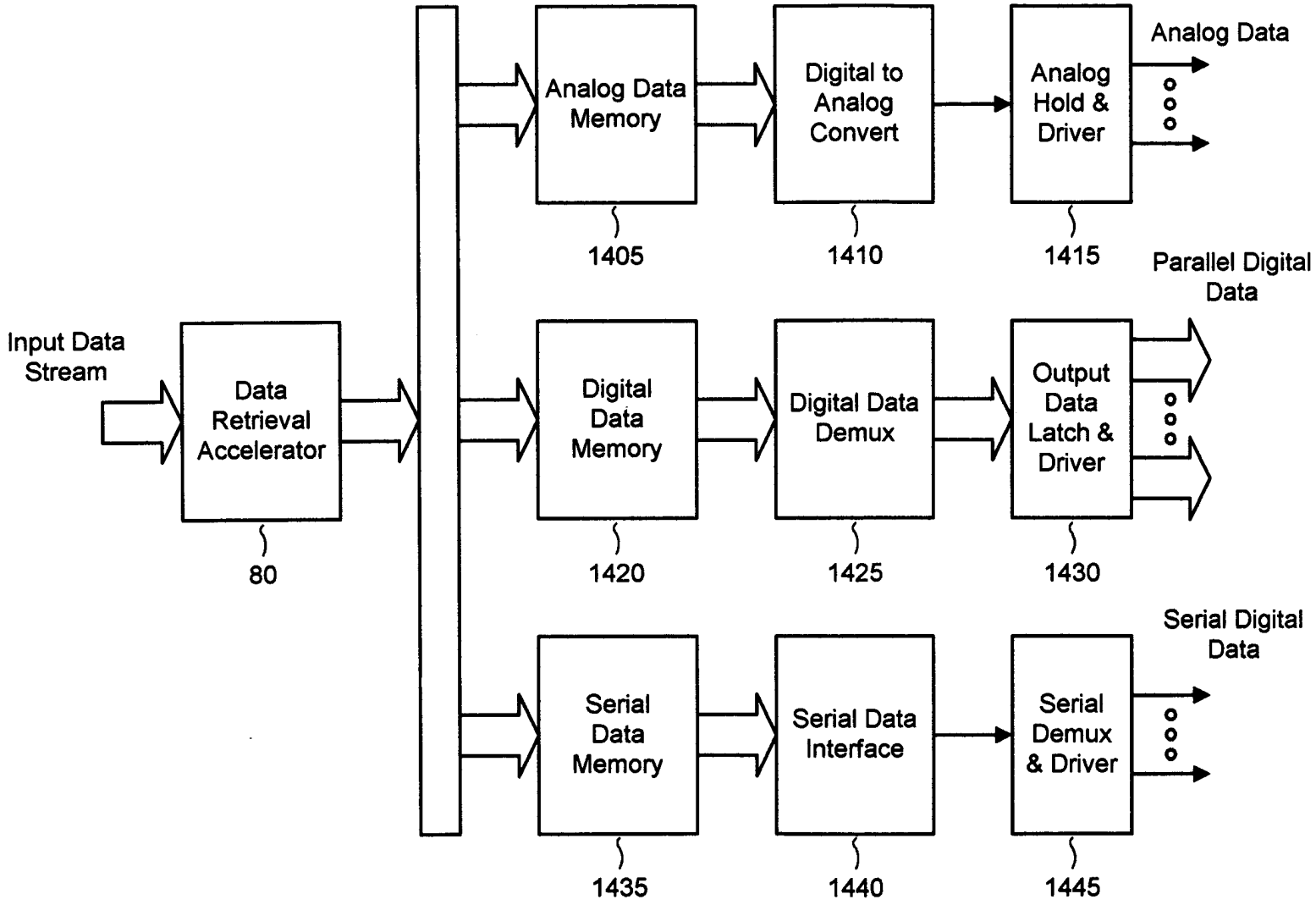

FIGURE 14

JUN 19 2003
PATENT & TRADEMARK

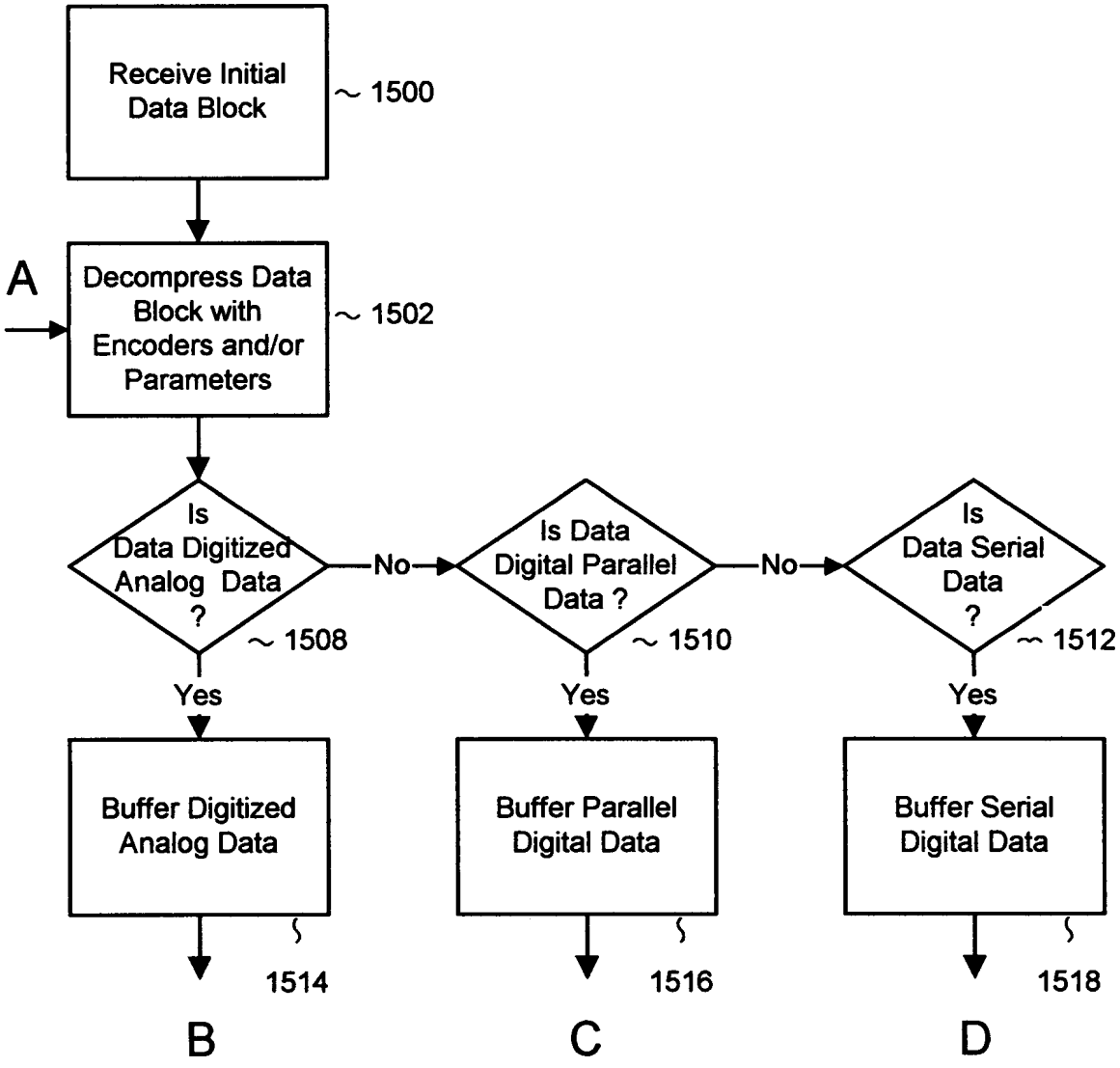

FIGURE 15a

OIPE
JUN 19 2003
PATENT & TRADEMARK OFFICE

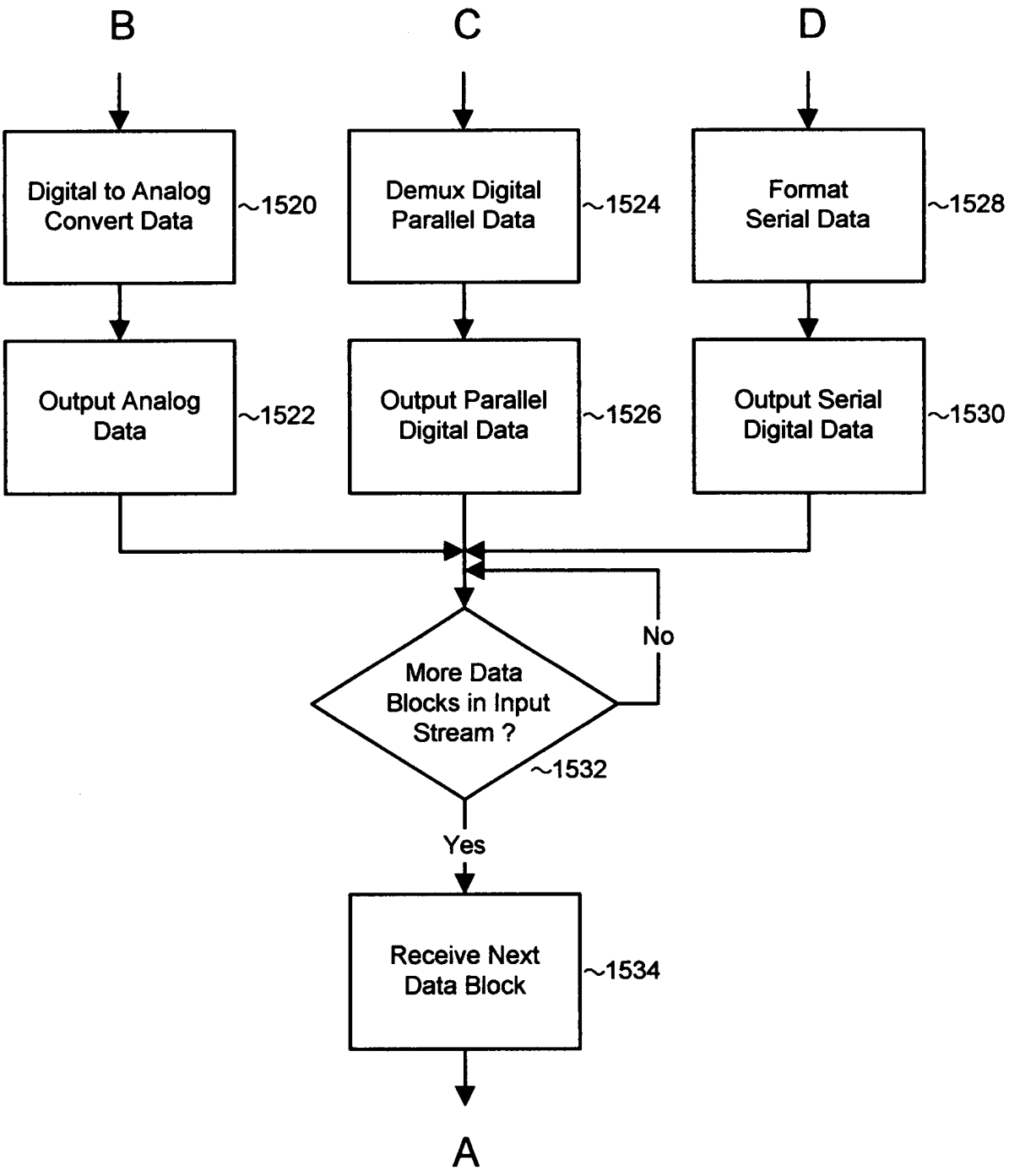

FIGURE 15b